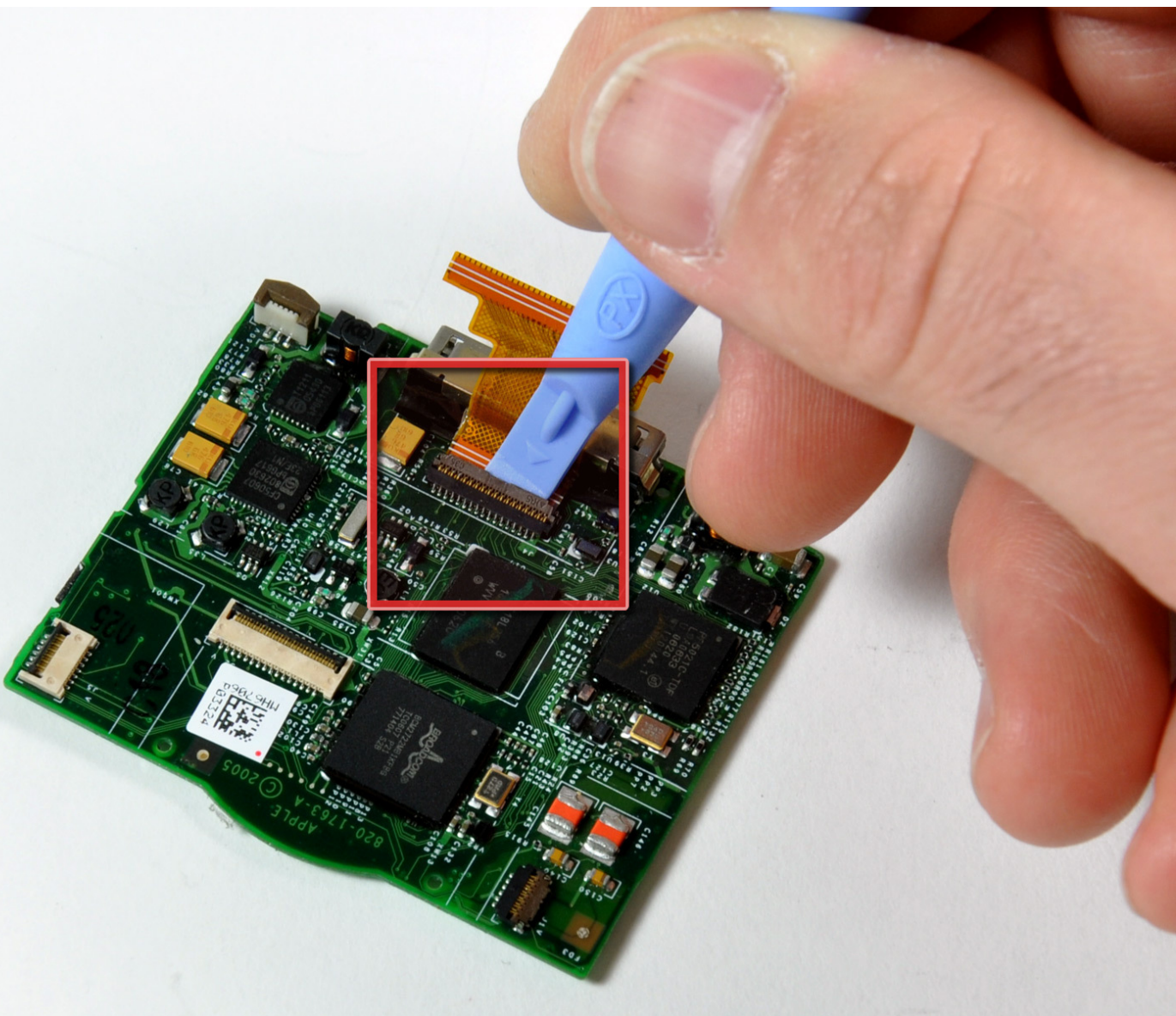




iPod 5th Generation (Video) Logic Board Replacement

Written By: Miroslav Djuric



INTRODUCTION

This guide shows how to replace the iPod Video's logic board.



TOOLS:

- [iFixit Opening Tools](#) (1)
- [Phillips #00 Screwdriver](#) (1)



PARTS:

- [iPod Video \(30 GB\) Logic Board](#) (1)
- [iPod Video Late Model Logic Board](#) (1)

Step 1 — Case



- i** Before opening your iPod, ensure that the hold switch is in the locked position. The slider should be all the way to the right if your iPod is facing you.

Step 2



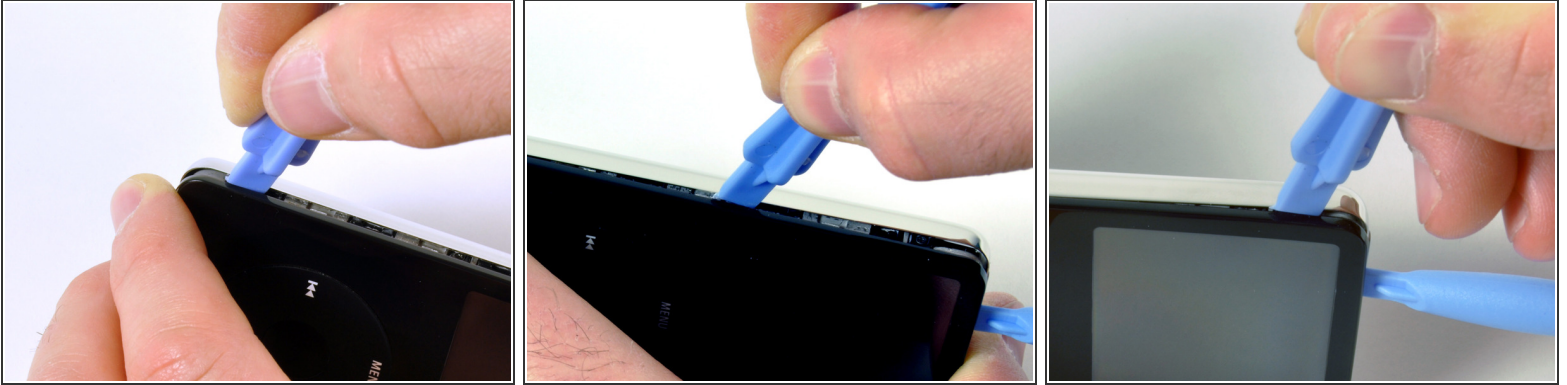
- i** Opening the iPod can be challenging. Do not get discouraged if it takes you a few tries before the iPod is opened.
- Free the first retainer clip on the bottom of the iPod using the iPod opening tool. The tool's edge should point towards the metal back case to prevent scratching the plastic front.

Step 3



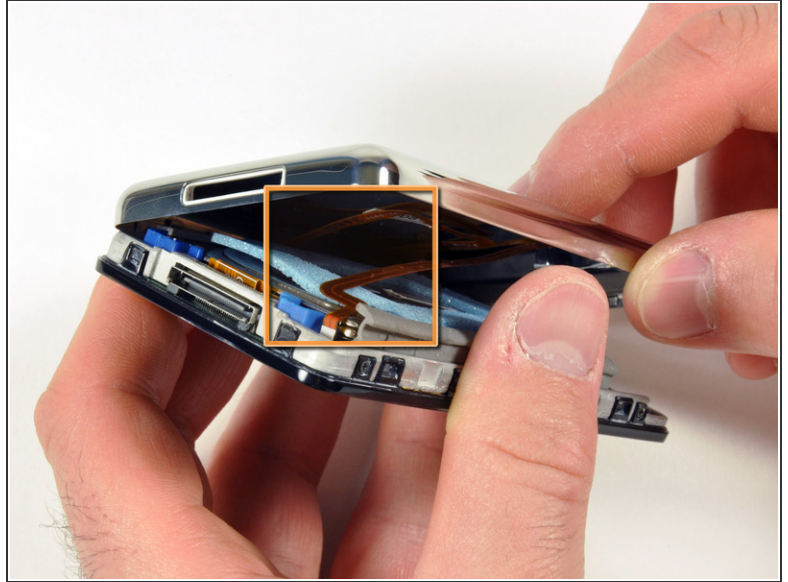
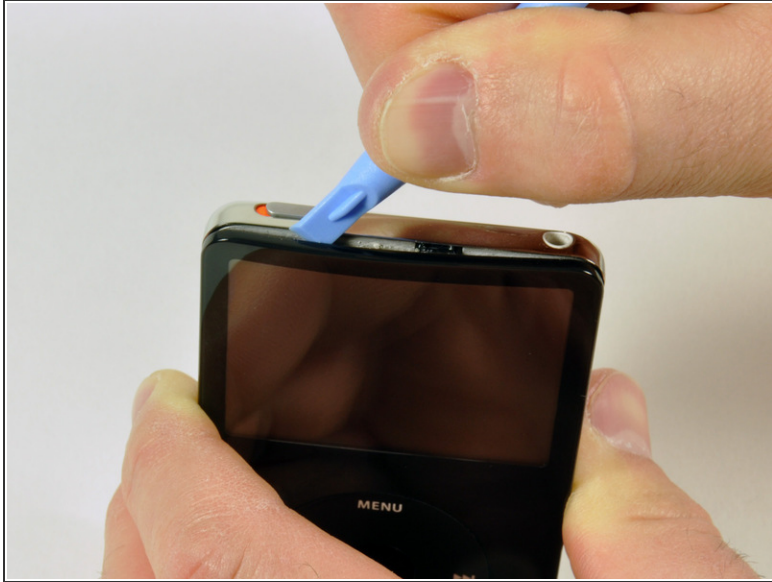
- Use this photo of the OPENED iPod for the reference, in order to locate the areas where the retaining clips are - 4 per side, one on top and two at the bottom. It should save you a lot of frustration and help avoid scratching the plastic cover.

Step 4




- i** There are four retaining clips on each side of the iPod. An iPod opening tool will be used to separate the plastic front from the metal back of the iPod.
- Insert the iPod opening tool into the left side of the iPod, with the edge of the tool pointing towards the metal back.
 - A small guitar pick can be extremely helpful in opening the iPod. Simply insert it and slide the pick around the case to free the clips to streamline the process.
 - Gently enlarge the existing crevice by wiggling the iPod opening tool and moving it to the left.
 - Continue doing so until the entire side of the iPod is loose.
 - You can then insert an iPod opening tool to the right of the Hold button. Be very careful while inserting the tool, as the display is very fragile.

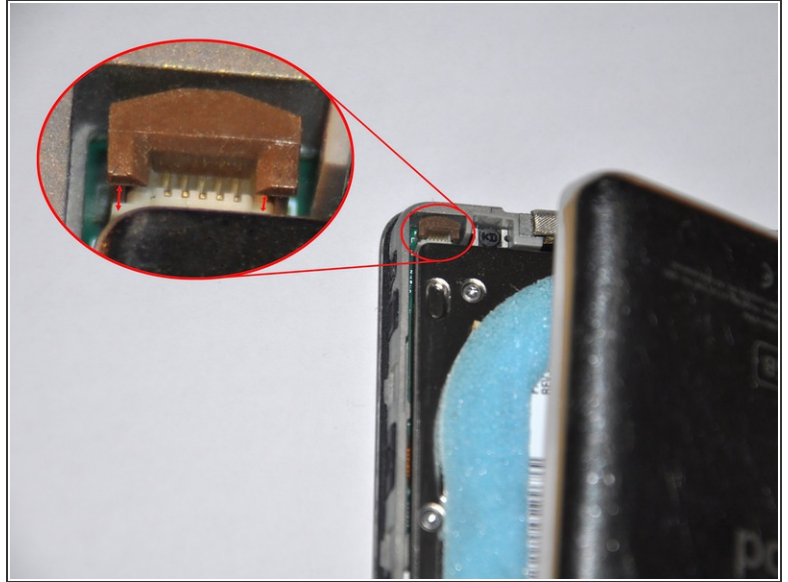
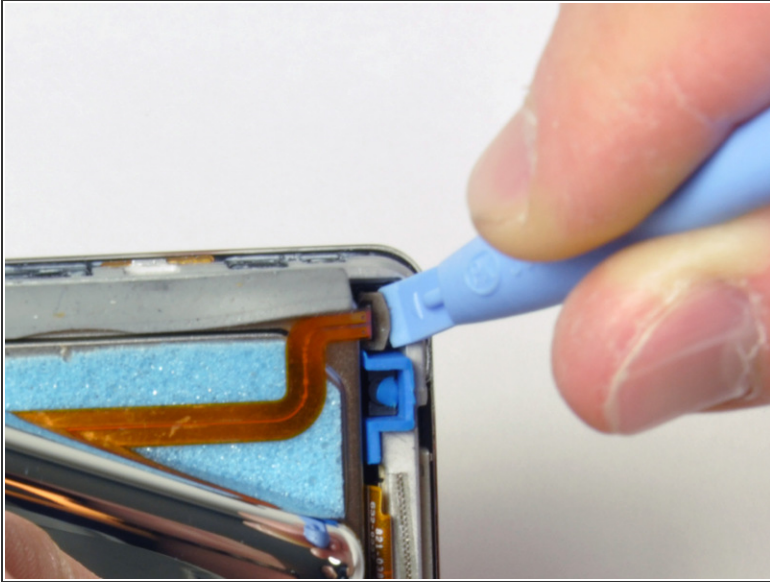
Step 5



- Gently glide the iPod opening tool on the top of the display, making sure to free the retaining clips.
- The other sides of the iPod should now easily come loose. If they do not, use iPod opening tools on the right side of the iPod in the same way as on the left side of the iPod.
- Separate the front of the iPod from the back about an inch (or a couple of centimeters).

 The iPod casing is now open, but don't completely separate the two halves just yet. Two ribbon cables are still connecting the back panel to the rest of the iPod.

Step 6



- Use angled tweezers or an iPod opening tool to slide up the brown connector latch, holding the orange battery ribbon cable in place. Make sure you pull from both sides of the latch. You only need to lift the brown connector latch up about 1-2mm to free the cable. Do not lift more or remove the latch, or you might pull the white connector with it!

⚠ Don't lift up too far or you could pull the battery connector out of the logic board.

⚠ Make sure to slide the brown connector directly upwards. The connector is frail and will break if it is accidentally shifted to the side. The connector has hooks at the bottom to hold the cable in place. As soon as you break one of the arms you will have problems putting the battery cable back on. If it breaks put the cable in the slot and then push the brown holder in place to keep the cable from slipping out.

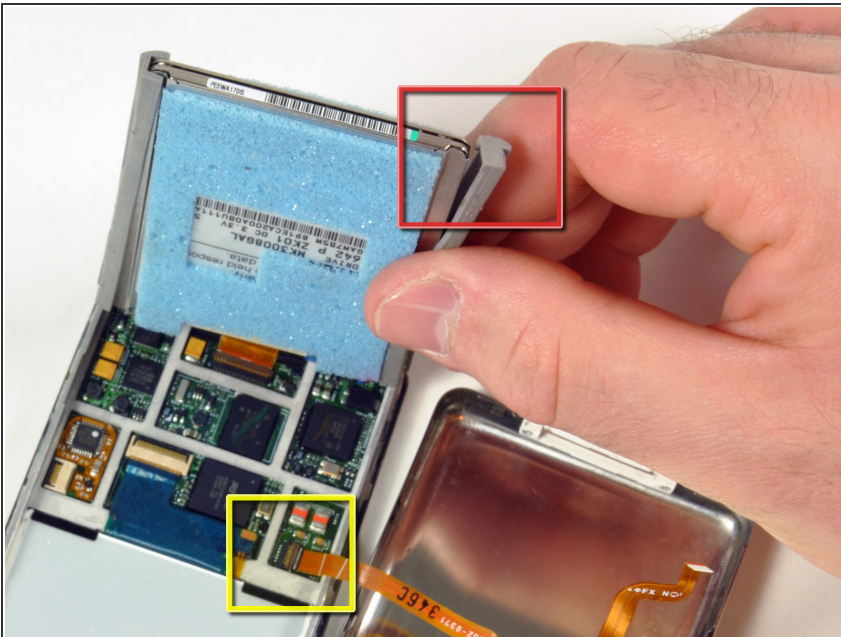
- Remove the cable from the connector.

Step 7



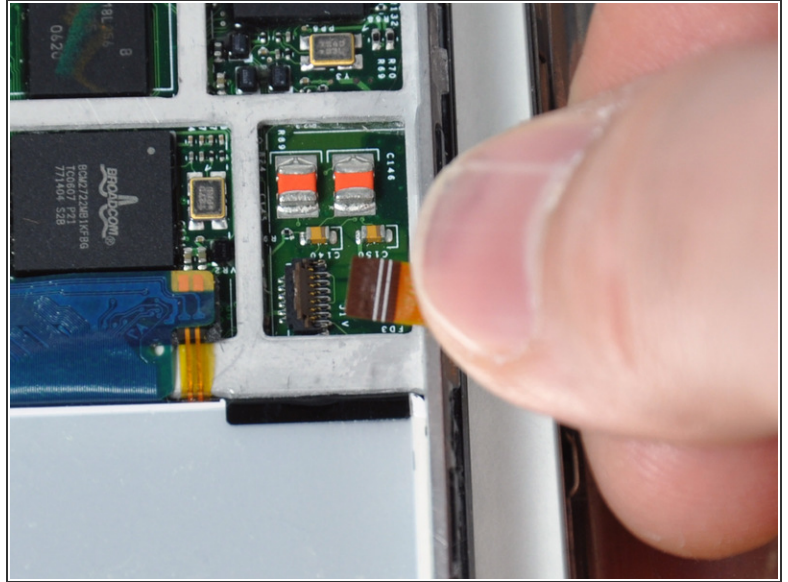
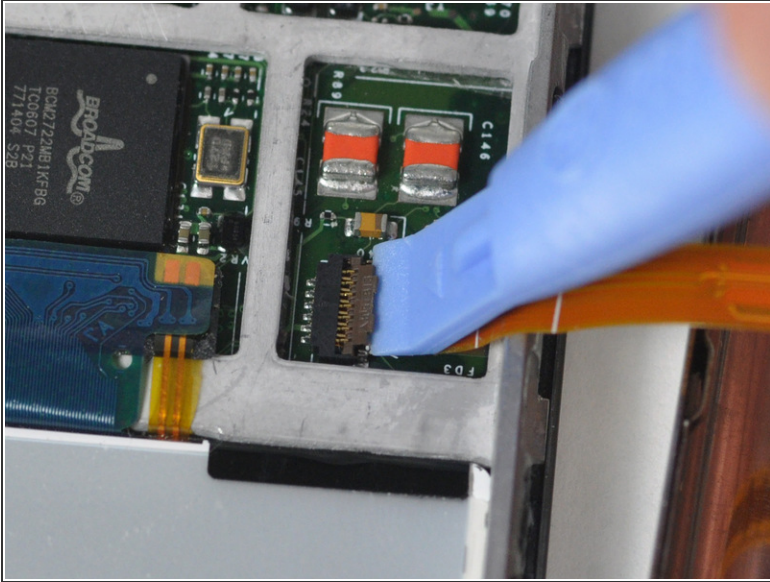
- You should now have one orange ribbon cable still attaching the front case to the back.
- At this point you are able to remove and replace the blue rubber bumpers, or continue with separating the case.
- ⓘ Separating the case is not necessary to complete battery replacement but may facilitate ease of replacement. It does require removing an extra cable at some risk of damage during removal

Step 8



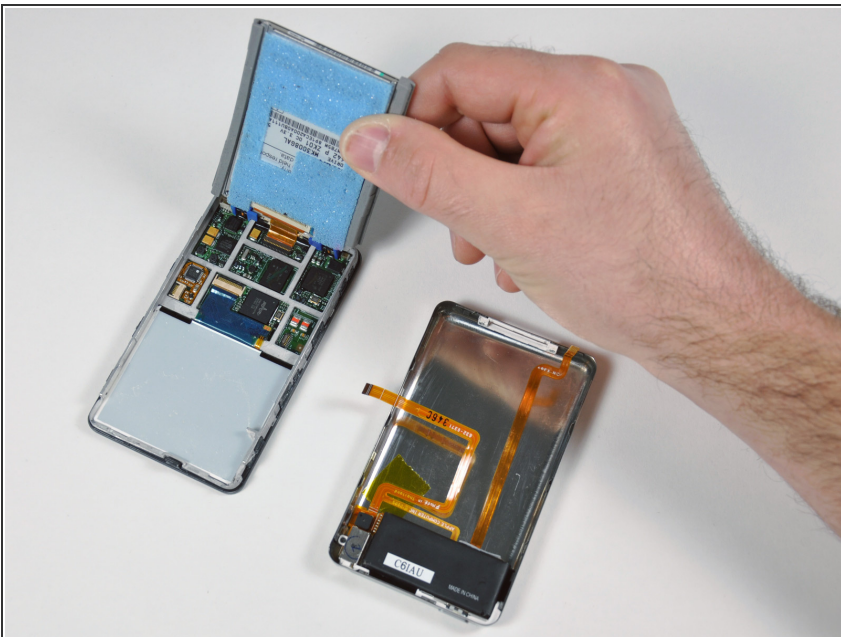
- Lift up the hard drive to expose the headphone jack ribbon connector (indicated by the yellow box).
- ⓘ If the hard drive bumpers come loose, make sure to put them back with the notch as shown in the picture.

Step 9



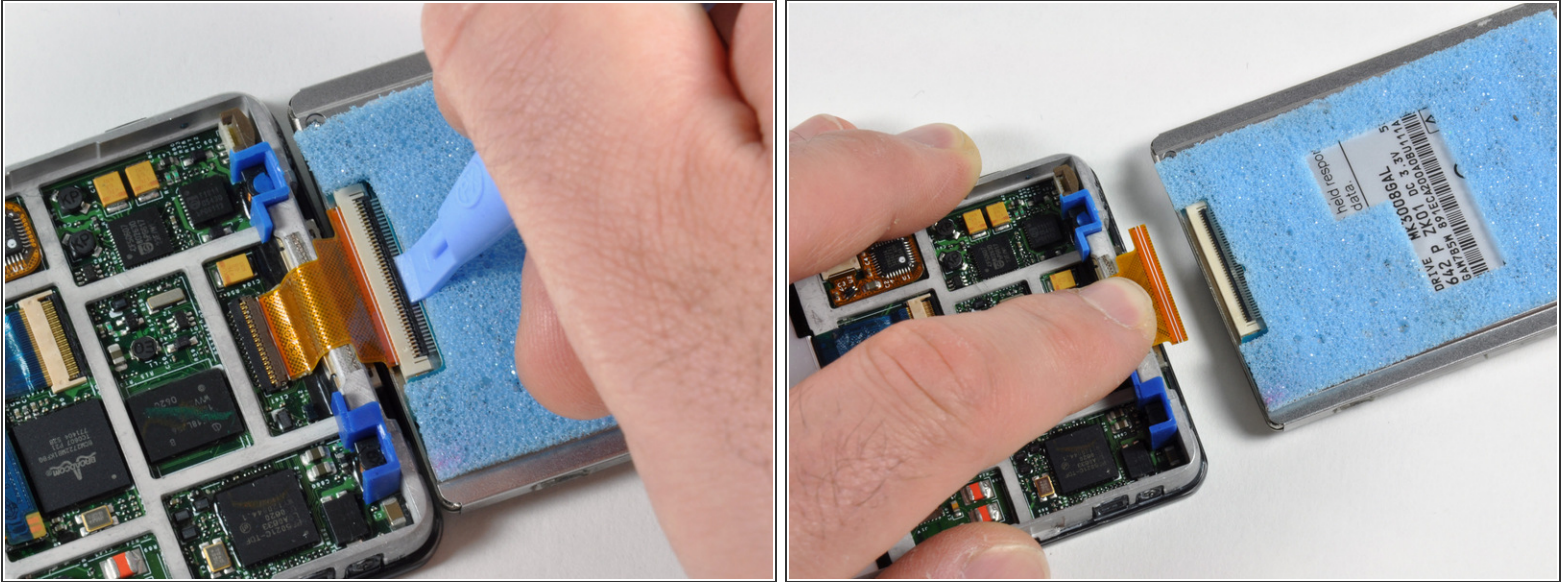
- With the iPod opening tool, gently lift the brown tab of the headphone ribbon cable connector. The tab will rotate up 90 degrees, releasing the ribbon cable.
- Using your fingers, pull out the headphone jack ribbon cable.

Step 10



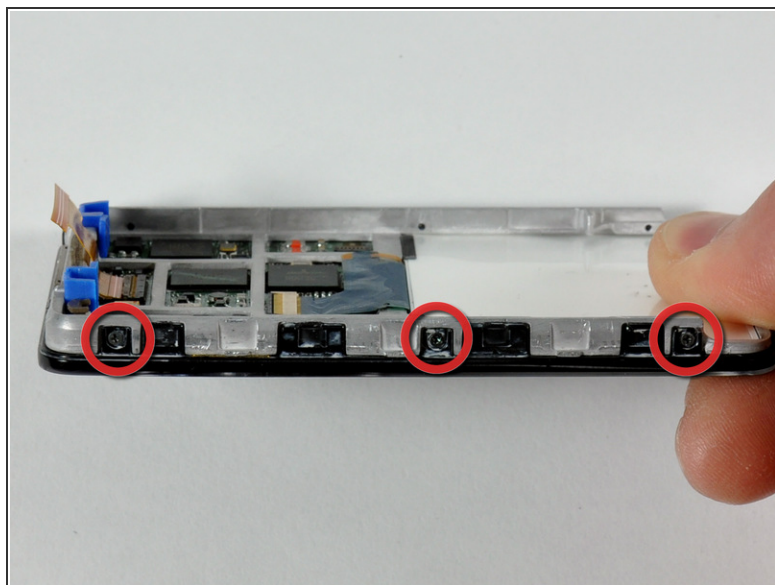
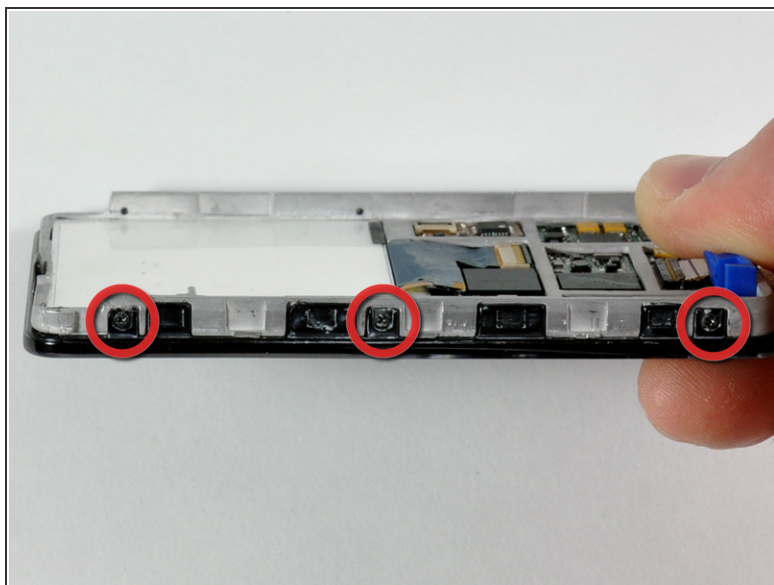
- The front and back of the iPod should now be completely separated.

Step 11 — Hard Drive



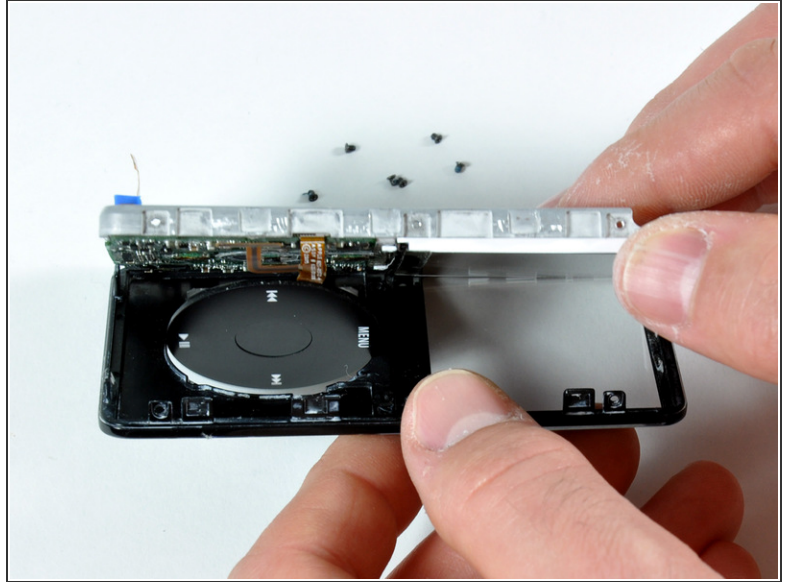
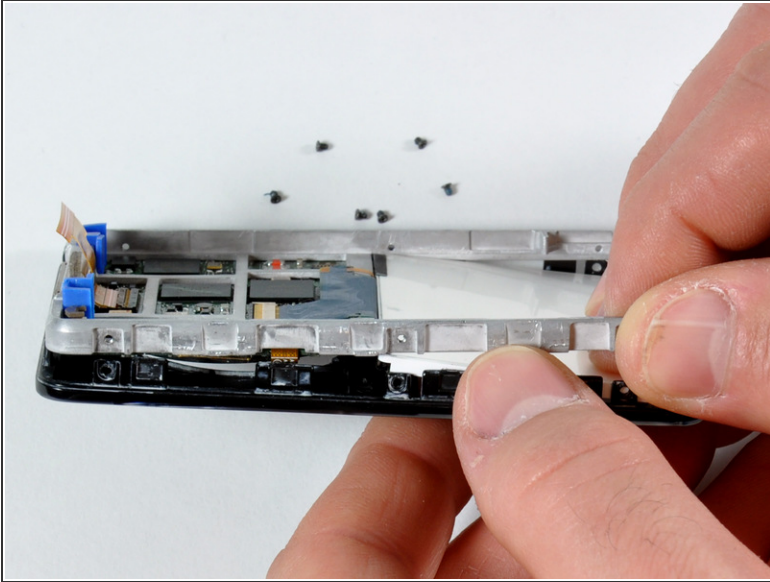
- Use a small iPod opening tool to release the black hinge holding the hard drive ribbon cable. The tab will rotate up 90 degrees towards the logic board, releasing the ribbon cable.
- Use your forefinger to hold the ribbon cable in place; disconnect the drive from the ribbon cable.
- ① Make sure the hard drive rubber side bumpers are attached to the drive being installed. Use the hard drive rubber side bumper installation guide to accomplish this task.
- ① If necessary, the blue foam padding on the hard drive might also need to be transferred to the replacement drive.



Step 12 — Front Panel



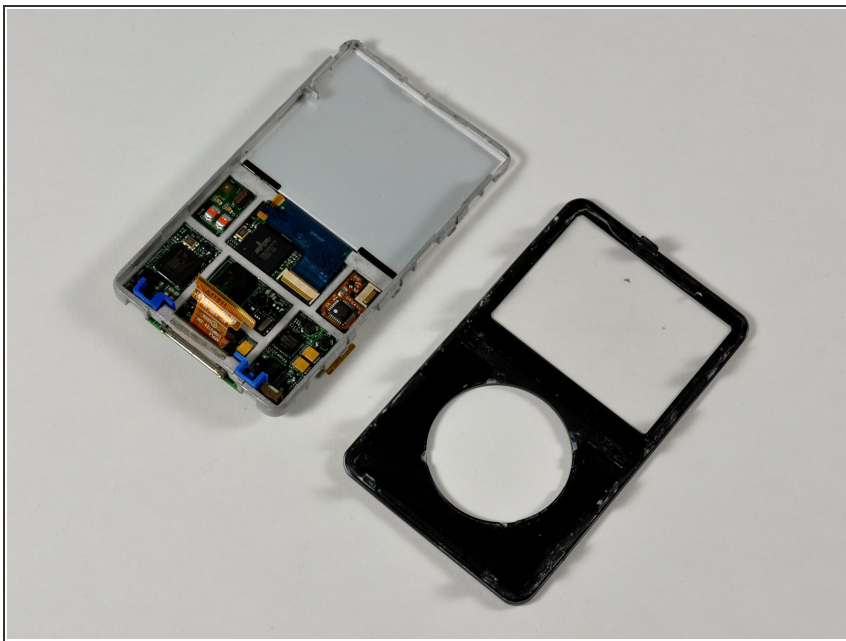
- Remove the three black Phillips screws securing the front panel to the metal framework.
- Rotate the iPod laterally 180 degrees and remove the three black Phillips screws securing the front panel to the metal framework on the other side.

Step 13



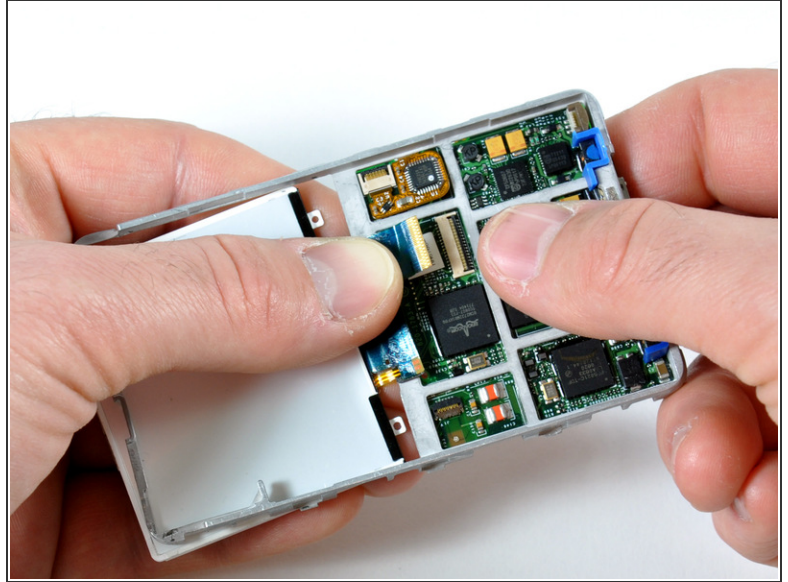
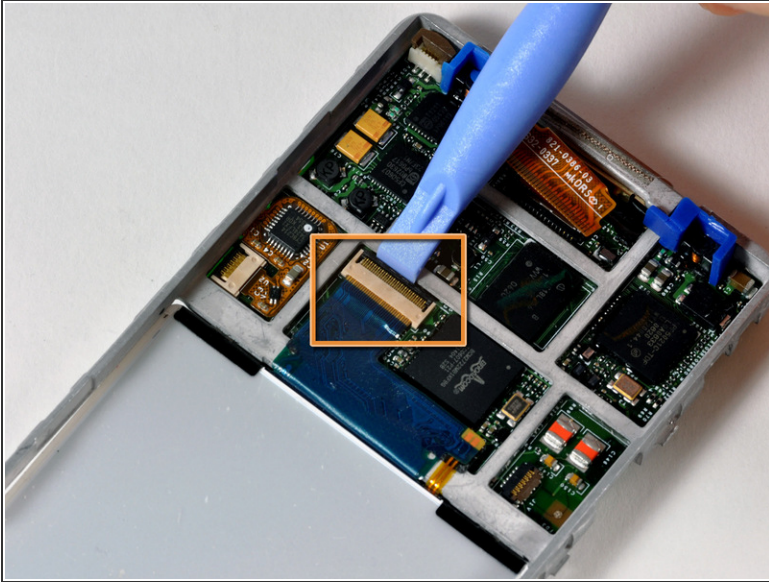
-  You may meet some resistance near the center of the iPod as there is a mild adhesive used to help hold the two pieces together.
- Carefully work around the edge of the iPod to separate the front panel from the metal framework.
 - Lift the framework (including the attached display, logic board, and click wheel) away from the front panel.
-  Make sure that the click wheel button is in place before reinstalling the framework in the front panel.

Step 14



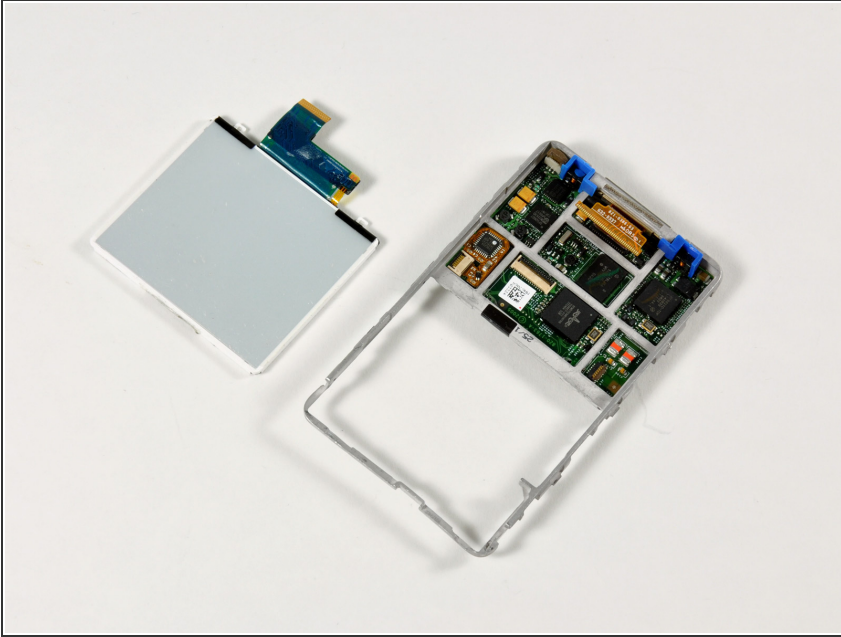
- The front panel should now be free from the rest of the iPod.

Step 15 — Display



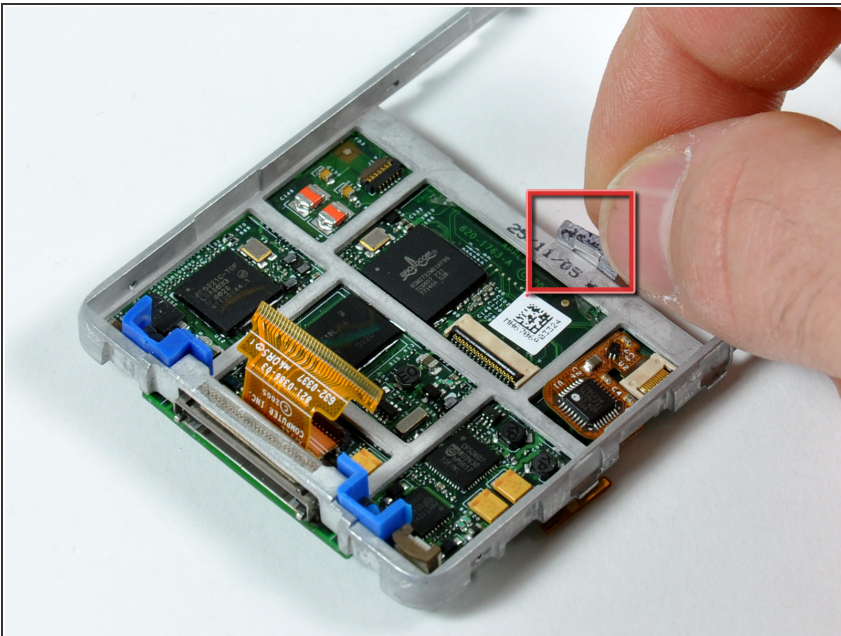
- Rotate the iPod so the black plastic tab is more accessible to you.
- Use a small iPod opening tool (or your fingernail) to flip up the black plastic tab holding the display ribbon in place. The tab will rotate up 90 degrees towards the display, releasing the ribbon cable.
- Use your finger to prevent the cable from lifting upwards. Wiggle the display loose from the frame, and then pull it gently outwards to release the display's ribbon cable. You may need to lift the cable away from the two white pegs that poke through it near the edge of the frame.

Step 16



- The display should now be free from the rest of the iPod.

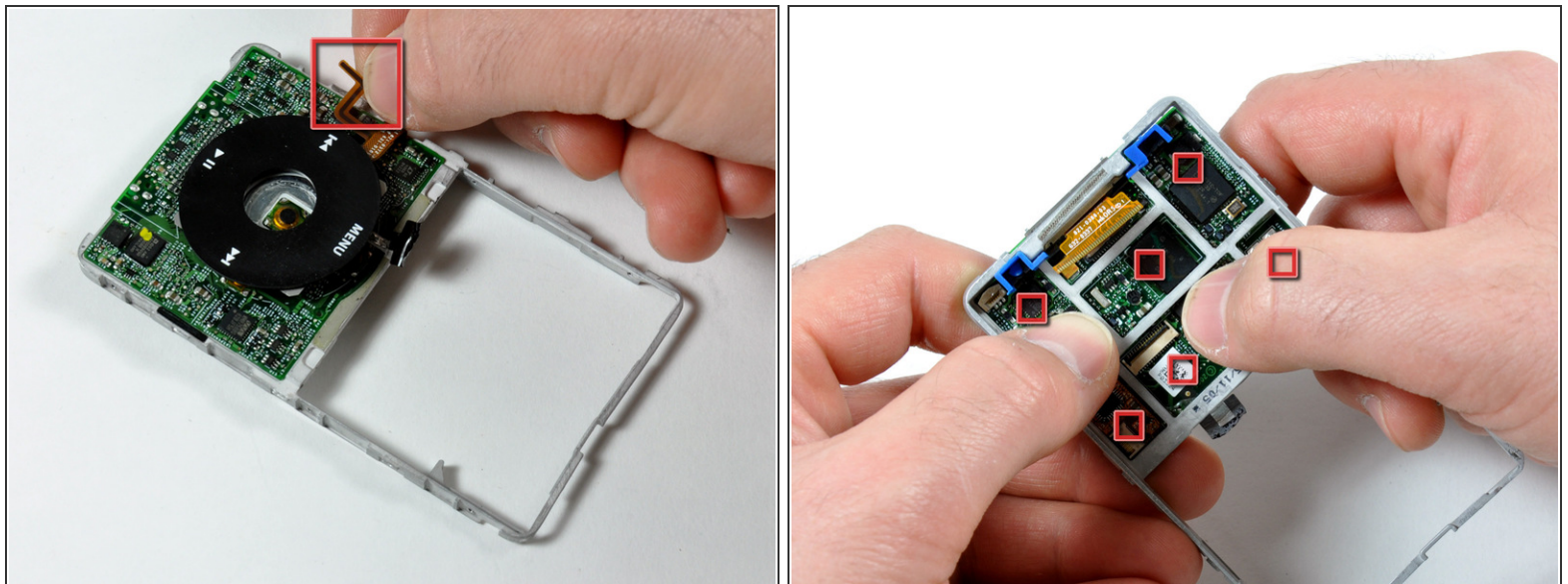
Step 17 — Framework



- Peel up the black tape securing the silver ground strap to the metal framework.

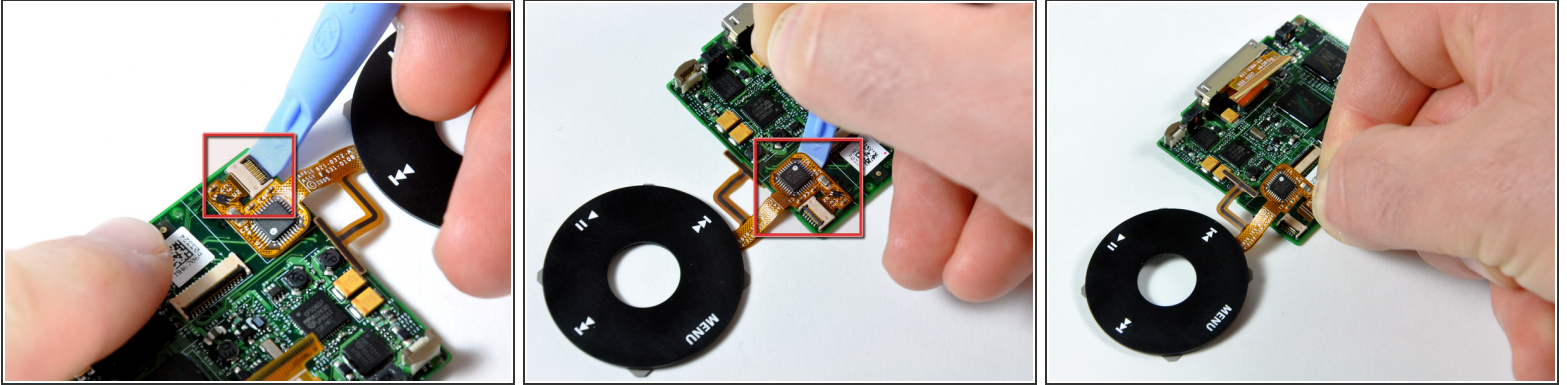
⚠ The ground strap is very fragile. Be sure not to break it.

Step 18



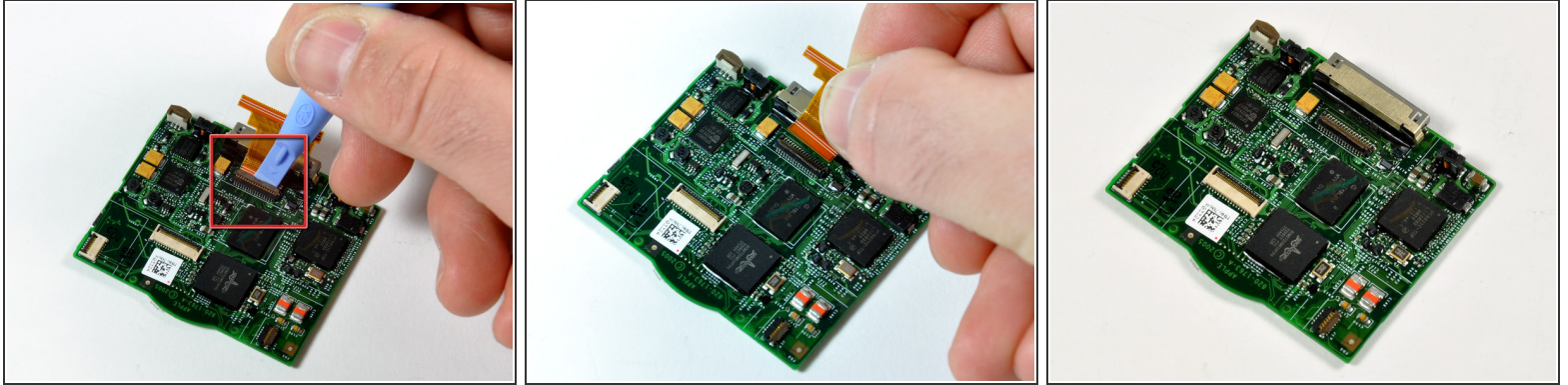
- Turn the iPod over and peel the orange click wheel ground tab up from the metal framework.
- ⓘ Be sure to detach only the thin ground tab, not the wider click wheel ribbon.
- Carefully push the logic board away from the metal framework. Use the squares as indicators of where to push. The logic board is secured to the framework with mild adhesive; be careful not to bend the logic board by pushing too much in any one spot.
- The framework should now be free from the rest of the iPod.

Step 19 — Click Wheel



- Use a small iPod opening tool to flip up the black plastic tab holding the orange click wheel ribbon in place. The black tab will rotate up 90 degrees, releasing the ribbon cable.
- Use a small iPod opening tool to loosen the click wheel cable from the logic board. Be careful not to bend the cable too much, or the electronics on the cable could be damaged.
- Disconnect the click wheel cable from its connector, and lift the entire click wheel assembly away from the logic board.
- The click wheel should now be separate from the rest of the iPod.

Step 20 — Logic Board



- Use a small iPod opening tool to flip up the brown plastic tab holding the orange hard drive ribbon in place. The brown tab will rotate up 90 degrees, releasing the ribbon cable.
- Slide the orange hard drive ribbon cable directly out of its connector. The cable may be attached to the logic board with some adhesive. If the cable doesn't immediately come free, carefully pull up on the cable to loosen the adhesive.
- Logic board remains.

To reassemble your device, follow these instructions in reverse order.

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